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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,903	07/09/2003	Koichiro Nakatani	115914	8441
25944 75	90 03/01/2005		EXAMINER	
OLIFF & BERRIDGE, PLC			TRAN, DIEM T	
P.O. BOX 1992 ALEXANDRIA			ART UNIT	PAPER NUMBER
			3748	

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/614,903	NAKATANI, KOICHIRO				
Office Action Summary	Examiner	Art Unit				
	Diem Tran	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tim ly within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 h	November 2004.					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.					
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Disposition of Claims						
 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

This office action is in response to the Request for Reconsideration filed on 11/18/04.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Deeba et al. (US patent 6,105,365).

Regarding claims 1, 10, Deeba discloses an exhaust emission control apparatus of an internal combustion engine in which combustion is continuously performed at a lean air/fuel ratio, the exhaust emission control apparatus comprising:

a NOx catalyst (42) provided in an exhaust passage of the internal combustion engine for storing NOx contained in an exhaust gas at a lean air/fuel ratio flowing into the exhaust passage, and reducing the stored NOx in the presence of a reducing agent in the exhaust gas when the air/fuel ratio of the exhaust gas is lowered (see col. 4, lines 44-60),

a reducing agent supply valve (32) that is provided in the exhaust passage upstream of the NOx catalyst, through which the reducing agent is supplied to the NOx catalyst, and a controller that temporarily decreases the flow rate of the exhaust gas while supplying the reducing agent through the reducing agent supply valve so as to execute a control of the flow rate of the exhaust gas flowing through the NOx catalyst in accordance with a value indicating a state

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of the exhaust gas flowing through the NOx catalyst, the value being variable upon supply of the reducing agent through the reducing agent supply valve (see col. 5, lines 56-67, col. 6, lines 1-18, col. 10, lines 28-55).

Regarding claims 2, 11, Deeba further discloses that the value indicating the state of the exhaust gas comprises a NOx concentration of the exhaust gas (see col. 5, lines 56-65).

Regarding claims 3, 12, Deeba further discloses that the controller controls the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve such that the value indicating the state of the exhaust gas accords with a target value (see col. 5, lines 56-61, col. 6, lines 1-18, 39-46, col. 10, lines 27-53).

Regarding claims 4, 5, 13, 14, Deeba further discloses that the controller controls the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve so as to accord a time period elapsing from a predetermined reference timing until the value indicating the state of the exhaust gas reaches a peak upon the supply of the reducing agent through the reducing agent supply valve (see col. 6, lines 39-46).

Regarding claims 6, 15, Deeba further discloses that the controller controls a quantity of the reducing agent supplied through the reducing agent supply valve on the basis of the value indicating the state of the exhaust gas at a timing after the execution of the control of the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve (see col. 6, lines 39-47).

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Regarding claims 7, 8, 16, 17, Deeba further discloses that the controller serves to continuously change the flow rate of the exhaust gas from a timing when the flow rate of the exhaust gas flowing through the NOx catalyst is decreased until restoration of the flow rate of the exhaust gas (see col. 6, lines 27-47).

Regarding claims 9, 18, Deeba further discloses that the controller controls a time period taken for the supply of the reducing agent through the reducing agent supply valve on the basis of the value indicating the state of the exhaust gas (see col. 6, lines 40-46).

Response to Arguments

Applicant's arguments filed on 11/18/04 have been fully considered but they are not deemed persuasive.

Applicant has argued that the Deeba reference fails to disclose controlling a flow rate of the exhaust gas in accordance with a NOx value that is variable when the reductant is supplied from the injector means 30 and 32. The Examiner respectfully disagrees, Deeba discloses controlling a flow rate of the exhaust gas in accordance with a NOx value measured by a NOx sensor (43) (see Figure 1, see col. 5, lines 56-67). When the reductant is supplied from the injector means 30 and 32, the downstream NOx sensor is effected thereby, at some point the exhaust gas flow rate is changed based on the signal of the NOx sensor (see col. 10, lines 28-55). Accordingly, the flow rate of the exhaust gas is variable with the flow rate of the reductant. Applicants claim language does not define over the system of Deeba.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies are not recited in

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the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner can normally be reached on Monday -Friday from 8:30 a.m.- 5:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Diem Tran

Patent Examiner

Handran

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DT

February 22, 2005

THOMAS DENION
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700